

# Notice of Allowability

Application No.

10/506,333

Examiner

Erick Glass

Applicant(s)

EGUCHI, KIYOSHI

Art Unit

2837

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 9/2/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

DAVID MARTIN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800

### Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Turner on September 1, 2005. In the interview Mr. Turner gave the examiner permission to make the following changes to the Claims and Specification:

In claim 1, line 2 please delete the words "2-phase/3-phase" and add the - - 3-phase/2-phase - - .

In claim 1, lines 13-14 please delete the words "the phase of a current command" and add - - each phase of the d-axis and q-axis current component commanding signal - - .

On page 3, line 15 please delete the words "2-phase/3-phase" and add the - - 3-phase/2-phase - - .

On page 6, lines 9-11 of the specification please delete the words "Fig. 2 a graph representing the relationship between the d-axis component ids of 2-phase current that a 3-phase/2-phase converting means 21 outputs and the ripple amplification factor." And please add the words - - Figs. 2a and 2b are graphs representing the relationship between the d-axis component ids of 2-phase current that a 3-phase/2-phase converting means 21 outputs and the ripple amplification factor.- -

On page 6, lines 12-15 of the specification please delete the words "Fig. 3 is a graph Embodiment 1 of the representing various waveforms according to present invention, the various waveforms relating to the calculation of a specific phase T01 at which the ripple amplification factor is maximal." And please add the words - -Figs. 3a thru 3d are graphs representing various waveforms according to Embodiment 1 of the present invention, the various waveforms relating to the calculation of a specific phase T01 at which the ripple amplification factor is maximal.- -

On page 6, lines 19-21 of the specification please delete the words "Fig. 5 is a graph representing various waveforms that relate to the calculation of a specific phase T01 at which the ripple amplification factor is maximal in cases where large residual voltage remains." And please add the words - - Figs. 5a thru 5c are graphs representing various waveforms that relate to the calculation of a specific phase T01 at which the ripple amplification factor is maximal in cases where large residual voltage remains.- -

On page 6, lines 22-25 and page 7, line 1 of the specification please delete the words "Fig. 6 is a graph representing various waveforms according to Embodiment 2 of the present invention, the various waveforms relating to the calculation of specific phases T01 and T02 at which the ripple amplification factors are maximal in cases where large residual voltage remains." And please add the words - - Figs. 6a thru 6c are graphs representing various waveforms according to Embodiment 2 of the present invention, the various waveforms relating to the calculation of specific phases T01 and

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T02 at which the ripple amplification factors are maximal in cases where large residual voltage remains.- -

Please insert the following paragraph after the first full paragraph on page 18:

Please add - - Because this invention may be embodied in several forms without departing from the spirit of the essential characteristics thereof, the present embodiments are therefore illustrative and not restrictive, since the scope of the invention is defined by the appended claims rather than by the description preceding them, and all changes that fall within the metes and bounds of the claims, or the equivalence of such metes and bounds, are therefore intended to be embraced by the claims. - -

The following is an examiner's statement of reasons for allowance: Claim 1 is allowable because a phase-reversal-timing detecting means for detecting as a phase-reversal timing a specific phase at which an amplification factor of ripple components superposed on the d-axis component of the 2-phase-voltage command outputted from the d-axis current control means is maximal, the current phase commanding means turning each phase of the d-axis and q-axis current component commanding signals by 180 degrees according to the specific phase outputted from the phase-reversal-timing detecting means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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